

METHOD AND APPARATUS FOR ANALYZING DIGITAL VIDEO
USING MULTI-FORMAT DISPLAY

~~METHOD AND APPARATUS FOR ANALYSIS OF DIGITAL VIDEO IMAGES~~

ABSTRACT OF THE DISCLOSURE

A multi-format display device for video production and testing **selectively** presents a video **input** signal in three or more distinct ways ~~at different areas of a display, to facilitate analysis of video data for discrete areas within the video picture. A video processor produces a complete picture from the input signal on a limited part of the device display area, such as a quadrant of a digitally controlled standard display. At another limited part, preferably on the same display, a picture zoom is presented, showing a visual enlargement of a subpart of the picture~~ **an area of particular scrutiny** around a cursor position, ~~preferably large enough to point out individual pixels or data samples. A third part of the display presents a tabular form of specific pixel~~ **information,** ~~numeric data for one or more pixels at the cursor, and also produces a color swatch corresponding to the pixel data values~~ **and graphic** ~~. Graphic plots of picture data, audio and other associated information can be placed in remaining~~ **of a formatted display.** ~~The controller and video processor are operable to accept~~ **Predetermined or input** pixel selection criteria **can shift the display at least temporarily** ~~, to identify pixels in the display that meet the criteria, and to scrutinize the selected pixels in sequence, subject to manual selection override~~ **as the input video signal frames proceed.**

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